

Centroid	Munsell	RGB
1 Vivid Pink	1r 8.0 13.0	#FF7E93
2 Strong Pink	1.2r 6.9 8.2	#FD7B7C
3 Deep Pink	2.1r 6.0 11.1	#F3545E
4 Light Pink	2.6r 8.5 4.0	#FFBCAD
5 Moderate Pink	2.8r 7.2 5.3	#EE9086
6 Dark Pink	2.7r 5.9 6.1	#C76864
7 Pale Pink	2.0r 8.7 2.1	#FFCB88
8 Grayish Pink	2.6r 7.2 2.3	#CF9B8F
9 Pinkish White	5.8r 9.0 0.8	#F9DBC8
10 Pinkish Gray	9.8r 7.4 1.0	#C8A696
11 Vivid Red	5.0r 3.9 15.4	#C10020
12 Strong Red	4.0r 4.4 12.1	#BF2233
13 Deep Red	5.1r 2.8 10.1	#7B001C
14 Very Deep Red	6.5r 1.7 8.4	#4F0014
15 Moderate Red	3.8r 4.4 9.1	#AB343A
16 Dark Red	4.0r 2.8 6.8	#681C23
17 Very Dark Red	2.0r 1.2 4.8	#320A18
18 Light Grayish Red	5.3r 5.9 3.5	#B17267
19 Grayish Red	4.0r 4.4 4.8	#8C4743
20 Dark Grayish Red	2.9r 2.7 2.1	#482A2A
21 Blackish Red	3.9r 0.8 1.7	#1F0E11
22 Reddish Gray	7.0r 5.4 1.3	#8B6C62
23 Dark Reddish Gray	6.0r 3.4 1.0	#523C36
24 Reddish Black	2.0r 0.9 0.9	#1E1112

Fig. 2A

25 Vivid Yellowish Pink	8.0r 8.0 13.0	#FF845C
26 Strong Yellowish Pink	8.4r 7.0 9.5	#FF7A5C
27 Deep Yellowish Pink	5.5r 5.8 12.1	#F64A46
28 Light Yellowish Pink	1.9yr 8.2 4.6	#FFB28B
29 Moderate Yellowish Pink	0.7yr 7.2 4.9	#EE9374
30 Dark Yellowish Pink	7.0r 6.0 6.1	#CC6C5C
31 Pale Yellowish Pink	4.2yr 8.6 2.2	#FFC8A8
32 Grayish Yellowish Pink	1.3yr 7.2 2.4	#D39B85
33 Brownish Pink	7.0yr 7.1 2.3	#CD9A7B
34 Vivid Reddish Orange	9.8r 5.4 14.5	#F13A13
35 Strong Reddish Orange	9.3r 5.4 12.2	#FFB961
36 Deep Reddish Orange	9.2r 3.9 12.1	#A91D11
37 Moderate Reddish Orange	9.3r 5.5 9.2	#D35339
38 Dark Reddish Orange	9.3r 4.0 9.1	#9B2F1F
39 Grayish Reddish Orange	0.4yr 5.4 6.2	#B85D43
40 Strong Reddish Brown	0.3yr 3.1 9.9	#7F180D
41 Deep Reddish Brown	1.6yr 1.5 8.3	#490005
42 Light Reddish Brown	0.5yr 5.5 4.1	#AA6651
43 Moderate Reddish Brown	9.0r 3.4 5.2	#712F26
44 Dark Reddish Brown	9.6r 1.3 3.6	#321011
45 Light Grayish Reddish Brown	2.9yr 5.4 2.3	#966A57
46 Grayish Reddish Brown	9.0r 3.4 2.4	#5E3830
47 Dark Grayish Reddish Brown	9.0r 2.0 2.0	#371F1C
48 Vivid Orange	4.1yr 6.5 15.0	#FF6800
49 Brilliant Orange	4.0yr 9.0 12.0	#FFB841

Fig. 2B

50 Strong Orange	4.3yr 6.5 12.2	#FF6F1A
51 Deep Orange	4.1yr 5.1 11.3	#C34D0A
52 Light Orange	4.8yr 7.8 7.2	#FFA161
53 Moderate Orange	4.6yr 6.5 8.2	#E8793E
54 Brownish Orange	4.1yr 5.0 8.0	#B15124
55 Strong Brown	4.6yr 3.5 7.6	#753313
56 Deep Brown	5.6yr 2.4 5.2	#4D220E
57 Light Brown	5.4yr 5.4 4.8	#A86540
58 Moderate Brown	5.6yr 3.5 3.9	#673923
59 Dark Brown	5.3yr 1.6 3.4	#35170C
60 Light Grayish Brown	6.4yr 5.4 2.2	#946B54
61 Grayish Brown	5.5yr 3.5 1.8	#5A3D30
62 Dark Grayish Brown	5.5yr 2.0 1.5	#32221A
63 Light Brownish Gray	7.0yr 5.4 1.2	#8B6D5C
64 Brownish Gray	5.65r 3.4 0.9	#503D33
65 Brownish Black	7.8yr 0.6 0.9	#140F0B
66 Vivid Orange Yellow	8.6yr 7.3 15.2	#FF8E00
67 Brilliant Orange Yellow	0.1y 8.1 10.5	#FFB02E
68 Strong Orange Yellow	9.1yr 7.1 11.6	#FF8E0D
69 Deep Orange Yellow	8.6yr 6.0 12.1	#D76E00
70 Light Orange Yellow	9.4yr 8.3 6.8	#FFB961
71 Moderate Orange Yellow	8.7yr 7.2 8.3	#F7943C
72 Dark Orange Yellow	9.3yr 6.0 7.9	#C37629
73 Pale Orange Yellow	9.2yr 8.7 4.4	#FFCA86
74 Strong Yellowish Brown	8.8yr 4.6 8.5	#95500C

Fig. 2C

75 Deep Yellowish Brown	8.8yr 3.1 5.0	#593315
76 Light Yellowish Brown	8.7yr 6.5 5.0	#BB8B54
77 Moderate Yellowish Brown	9.5yr 4.4 3.9	#7D512D
78 Dark Yellowish Brown	9.4yr 2.3 3.3	#3F2512
79 Light Grayish Yellowish Brown	9.7yr 6.4 2.5	#B48764
80 Grayish Yellowish Brown	9.5yr 4.6 2.1	#785840
81 Dark Grayish Yellowish Brown	8.8yr 2.5 1.6	#3D2B1F
82 Vivid Yellow	3.3y 8.0 14.3	#FFB300
83 Brilliant Yellow	4.4y 8.7 8.9	#FFCF40
84 Strong Yellow	3.7y 7.2 9.3	#E59E1F
85 Deep Yellow	3.7y 5.9 9.1	#B57900
86 Light Yellow	4.3y 8.8 6.8	#FFD35F
87 Moderate Yellow	3.8y 7.1 6.5	#D79D41
88 Dark Yellow	3.9y 6.0 6.4	#B07D2B
89 Pale Yellow	4.7y 9.0 3.8	#FFDB8B
90 Grayish Yellow	4.4y 7.2 3.8	#CEA262
91 Dark Grayish Yellow	3.8y 5.9 4.0	#A47C45
92 Yellowish White	4.5y 9.2 1.2	#FFE2B7
93 Yellowish Gray	3.8y 7.4 1.4	#CAA885
94 Light Olive Brown	2.1y 4.9 7.9	#945D0B
95 Moderate Olive Brown	2.7y 3.6 5.5	#64400F
96 Dark Olive Brown	2.0y 1.9 2.2	#302112
97 Vivid Greenish Yellow	9.1y 8.2 12.0	#F4C800
98 Brilliant Greenish Yellow	9.8y 8.8 9.5	#FFDC33

Fig. 2D

99 Strong Greenish Yellow	9.2y 7.2 9.2	#CCA817
100 Deep Greenish Yellow	9.2y 5.9 9.2	#9F8200
101 Light Greenish Yellow	9.8y 8.9 7.0	#FFDE5A
102 Moderate Greenish Yellow	9.5y 7.1 6.5	#C4A43D
103 Dark Greenish Yellow	9.4y 5.9 6.3	#9B8127
104 Pale Greenish Yellow	9.5y 9.0 4.2	#FFDF84
105 Grayish Greenish Yellow	9.0y 7.2 3.9	#C4A55F
106 Light Olive	8.2y 5.1 5.6	#846A20
107 Moderate Olive	7.6y 3.8 5.4	#5E490F
108 Dark Olive	8.9y 2.4 3.1	#362C12
109 Light Grayish Olive	7.85y 5.5 2.5	#8B734B
110 Grayish Olive	8.0y 3.6 2.0	#52442C
111 Dark Grayish Olive	9.7y 2.0 1.8	#2B2517
112 Light Olive Gray	6.9y 5.5 1.3	#887359
113 Olive Gray	8.1y 3.5 0.9	#4D4234
114 Olive Black	9.0y 1.1 0.9	#121910
115 Vivid Yellowish Green	5.4gy 6.8 11.2	#93AA00
116 Brilliant Yellow Green	4.9gy 8.2 9.1	#CED23A
117 Strong Yellow Green	5.4gy 6.0 8.7	#7F8F18
118 Deep Yellow Green	7.4gy 4.2 7.1	#425E17
119 Light Yellow Green	5.0gy 8.4 5.6	#DCD36A
120 Moderate Yellow Green	4.8gy 6.0 5.0	#8B8940
121 Pale Yellowish Green	3.4gy 8.7 2.4	#F0D698
122 Grayish Yellowish Green	4.4gy 6.0 2.3	#90845B
123 Strong Olive Green	4.0gy 3.0 11.0	#0A4500

Fig. 2E

124 Deep Olive Green	4.0gy 1.5 11.0	#142300
125 Moderate Olive Green	5.7gy 3.6 4.8	#434B1B
126 Dark Olive Green	8.0gy 2.2 3.6	#232C16
127 Grayish Olive Green	4.6gy 3.5 2.0	#48442D
128 Dark Grayish Olive Green	5.4gy 2.0 1.8	#27261A
129 Vivid Yellowish Green	1.1g 5.9 11.2	#379931
130 Brilliant Yellowish Green	0.3g 7.7 8.6	#8CCB5E
131 Strong Yellowish Green	0.4g 5.4 8.7	#478430
132 Deep Yellowish Green	0.9g 3.5 9.0	#00541F
133 Very Deep Yellowish Green	10.0gy 1.5 11	#002800
134 Very Light Yellowish Green	0.2g 8.6 4.6	#C6DF90
135 Light Yellowish Green	0.7g 7.4 5.2	#007BA7
136 Moderate Yellowish Green	0.5g 5.5 4.8	#657F4B
137 Dark Yellowish Green	0.6g 3.5 5.0	#304B26
138 Very Dark Yellowish Green	0.3g 1.8 4.3	#132712
139 Vivid Green	3.2g 4.9 11.1	#007D34
140 Brilliant Green	6.2g 6.5 8.3	#47A76A
141 Strong Green	5.8g 4.4 8.7	#006B3C
142 Deep Green	5.1g 3.0 8.1	#004524
143 Very Light Green	6.5g 7.8 4.9	#98C793
144 Light Green	6.0g 6.4 5.1	#719B6E
145 Moderate Green	6.3g 4.5 5.1	#386646
146 Dark Green	6.6g 2.8 4.6	#203A27
147 Very Dark Green	8.0g 1.8 3.0	#16251C
148 Very Pale Green	7.3g 8.8 1.9	#D8DEBA

Fig. 2F

149 Pale Green	7.6g 6.4 1.7	#8D917A
150 Grayish Green	8.8g 4.5 1.8	#575E4E
151 Dark Greenish Yellowish Green	1.0bg 2.9 1.8	#313830
152 Blackish Green	10.0g 1.0 1.4	#141613
153 Greenish White	10.0g 9.2 0.8	#F5E6CB
154 Light Greenish Gray	3.0g 7.5 0.9	#BAAF96
155 Greenish Gray	7.5g 5.5 1.0	#7A7666
156 Dark Greenish Gray	1.5bg 3.5 0.9	#45433B
157 Greenish Black	8.7g 1.0 0.7	#181513
158 Vivid Bluish Green	5.0bg 5.0 13.0	#00836E
159 Brilliant Bluish Green	2.9bg 6.0 9.6	#009B76
160 Strong Bluish Green	4.6bg 4.5 8.5	#006D5B
161 Deep Bluish Green	2.8bg 2.4 8.3	#00382B
162 Very Light Bluish Green	4.4bg 8.3 4.6	#A0D6B4
163 Light Bluish Green	4.6bg 6.5 4.9	#669E85
164 Moderate Bluish Green	4.6bg 4.5 5.0	#2F6556
165 Dark Bluish Green	4.9bg 2.7 5.0	#013A33
166 Very Dark Bluish Green	3.6bg 1.2 4.0	#001D18
167 Vivid Greenish Blue	5.0b 5.0 13.0	#007BA7
168 Brilliant Greenish Blue	4.6b 5.9 7.7	#2A8D9C
169 Strong Greenish Blue	4.9b 4.5 8.4	#00677E
170 Deep Greenish Blue	5.0b 5.0 13.0	#007BA7
171 Very Light Greenish Blue	4.0b 8.0 4.0	#A3C6C0
172 Light Greenish Blue	4.5b 6.5 5.4	#649A9E

Fig. 2G

173 Moderate Greenish Blue	4.7b 4.5 5.2	#30626B
174 Dark Greenish Blue	3.7b 2.7 5.0	#003841
175 Very Dark Greenish Blue	5.0b 1.5 3.6	#022027
176 Vivid Blue	5.0b 5.0 14.0	#007CAD
177 Brilliant Blue	1.6pb 5.9 9.4	#4285B4
178 Strong Blue	2.9pb 4.1 10.4	#00538A
179 Deep Blue	2.8pb 2.5 7.9	#002F55
180 Very Light Blue	2.7pb 7.9 6.0	#A6BDD7
181 Light Blue	1.6pb 6.4 6.9	#6C92AF
182 Moderate Blue	3.0pb 4.3 6.8	#395778
183 Dark Blue	2.2pb 1.7 5.5	#002137
184 Very Pale Blue	1.5pb 8.3 3.3	#C1CACA
185 Pale Blue	0.6pb 6.5 2.6	#919192
186 Grayish Blue	0.2pb 4.2 3.0	#4A545C
187 Dark Grayish Blue	9.2b 2.7 2.0	#2C3337
188 Blackish Blue	9.8b 1.3 1.5	#161A1E
189 Bluish White	9.2b 9.1 1.2	#F9DFCF
190 Light Bluish Gray	8.2b 7.5 1.0	#BEADA1
191 Bluish Gray	8.9b 5.5 0.9	#7D746D
192 Dark Bluish Gray	0.3pb 3.6 1.1	#464544
193 Bluish Black	9.6b 1.1 0.8	#151719
194 Very Purplish Blue	7.8pb 2.0 12.5	#20155E
195 Brilliant Purplish Blue	7.3pb 5.1 9.0	#62639B
196 Strong Purplish Blue	8.0pb 4.0 10.9	#474389
197 Deep Purplish Blue	7.8pb 1.5 8.0	#1A153F

Fig. 2H

198 Very Light Purplish Blue	7.4pb 7.6 5.2	#BAACC7
199 Light Purplish Blue	7.3pb 6.0 6.5	#837DA2
200 Moderate Purplish Blue	7.9pb 3.5 6.5	#423C63
201 Dark Purplish Blue	8.0pb 1.3 4.3	#1A162A
202 Very Pale Purplish Blue	7.0pb 8.0 3.7	#CBBAC5
203 Pale Purplish Blue	7.0pb 6.0 3.9	#8A7F8E
204 Grayish Purplish Blue	6.9pb 3.4 3.8	#413D51
205 Vivid Violet	2.0p 5.0 14.0	#884BAE
206 Brilliant Violet	9.9pb 5.1 9.4	#755D9A
207 Strong Violet	0.2p 3.7 10.1	#53377A
208 Deep Violet	1.1p 1.2 8.6	#240935
209 Very Light Violet	2.0p 8.5 7.0	#EEBEF1
210 Light Violet	0.5p 5.6 7.1	#876C99
211 Moderate Violet	1.4p 3.6 7.0	#543964
212 Dark Violet	1.4p 1.3 4.9	#22132B
213 Very Pale Violet	9.7pb 7.9 3.7	#D8B1BF
214 Pale Violet	1.3p 6.0 4.0	#957B8D
215 Grayish Violet	1.2p 3.3 3.9	#46394B
216 Vivid Purple	6.0p 4.5 14.0	#943391
217 Brilliant Purple	6.0p 7.0 11.0	#DD80CC
218 Strong Purple	6.5p 4.3 9.2	#803E75
219 Deep Purple	6.3p 2.7 9.1	#531A50
220 Very Deep Purple	5.0p 1.5 8.0	#320B35
221 Very Light Purple	6.5p 7.8 5.1	#E3A9BE
222 Light Purple	6.2p 6.5 6.5	#BA7FA2

Fig. 21

223 Moderate Purple	6.6p 4.5 7.1	#7F4870
224 Dark Purple	6.3p 2.8 4.9	#472A3F
225 Very Dark Purple	6.9p 1.0 4.5	#230D21
226 Very Pale Purple	5.5p 8.2 3.2	#E6BBC1
227 Pale Purple	7.9p 6.4 3.1	#AE848B
228 Grayish Purple	8.1p 4.5 2.7	#72525C
229 Dark Grayish Purple	0.5rp 2.8 2.0	#452D35
230 Blackish Purple	0.8rp 0.9 1.6	#1D1018
231 Purplish White	2.5rp 9.0 0.8	#FADBC8
232 Light Purplish Gray	0.3rp 7.5 1.1	#C8A99E
233 Purplish Gray	1.0rp 5.5 0.9	#88706B
234 Dark Purplish Gray	1.0rp 3.6 1.0	#564042
235 Purplish Black	9.54p 0.9 0.6	#1B1116
236 Vivid Reddish Purple	1.0rp 3.0 14.0	#7E0059
237 Strong Reddish Purple	1.3rp 4.4 10.2	#9A366B
238 Deep Reddish Purple	1.0rp 2.8 9.5	#641349
239 Very Deep Reddish Purple	0.9rp 1.9 8.9	#470736
240 Light Reddish Purple	0.7rp 6.0 6.9	#BB6C8A
241 Moderate Reddish Purple	0.8rp 4.5 7.0	#8C4566
242 Dark Reddish Purple	1.3rp 2.8 4.8	#4F273A
243 Very Dark Reddish Purple	1.5rp 1.0 4.8	#270A1F
244 Pale Reddish Purple	1.3rp 6.0 4.2	#AC7580
245 Grayish Reddish Purple	1.0rp 4.5 4.2	#7D4D5D
246 Brilliant Purplish Pink	6.0rp 8.5 11.0	#FF97BB
247 Strong Purplish Pink	5.6rp 6.8 9.0	#F6768E

Fig. 2J

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248 Deep Purplish Pink	4.4rp 6.0 12.2	#EB5284
249 Light Purplish Pink	4.6rp 8.0 5.5	#FFA8AF
250 Moderate Purplish Pink	4.6rp 6.8 6.7	#E28090
251 Dark Purplish Pink	6.4rp 5.9 7.0	#C76574
252 Pale Purplish Pink	3.7rp 8.4 3.3	#FDBDBA
253 Grayish Purplish Pink	3.7rp 7.0 3.5	#CC9293
254 Vivid Purplish Red	7.6rp 4.9 13.6	#D5265B
255 Strong Purplish Red	7.3rp 4.4 11.4	#B32851
256 Deep Purplish Red	7.3rp 2.6 10.1	#6F0035
257 Very Deep Purplish Red	6.8rp 1.7 8.0	#470027
258 Moderate Purplish Red	7.1rp 4.5 9.0	#A73853
259 Dark Purplish Red	7.1rp 2.7 6.0	#5B1E31
260 Very Dark Purplish Red	6.6rp 0.9 4.8	#28071A
261 Light Grayish Purplish Red	7.8rp 5.9 4.2	#B27070
262 Grayish Purplish Red	7.0rp 4.5 5.1	#8C4852
263 White	2.5pb 9.5 0.2	#FFC9D7
264 Light Gray	6.7y 7.4 0.2	#C2A894
265 Medium Gray	3.3gy 5.4 0.1	#817066
266 Dark Gray	2.5pb 3.5 0.0	#49423D
267 Black	2.5pb 0.8 0.0	#131313

Fig. 2K

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```
<color name> : <chromatic name> | <achromatic name>  
<chromatic name> : <lightness> <saturation> <hue> | <saturation> <lightness> <hue>  
<chromatic name> : <lightness> <achromatic term>  
<lightness> : blackish | very dark | dark | medium | light | very light | whitish  
<saturation> : grayish | moderate | medium | strong | vivid  
<hue> : <generic hue> | <hue modifier> <generic hue>  
<generic hue> : red | orange | brown | yellow | green | blue | purple | pink | beige | olive  
<hue modifier> : <generic hue> | <ish form>  
<ish form> : reddish | brownish | yellowish | greenish | bluish | purplish | pinkish  
<achromatic term> : <generic achromatic term> | <ish form> <generic achromatic term>  
<generic achromatic term>: gray | black | white
```

Fig. 2L

Fig. 3

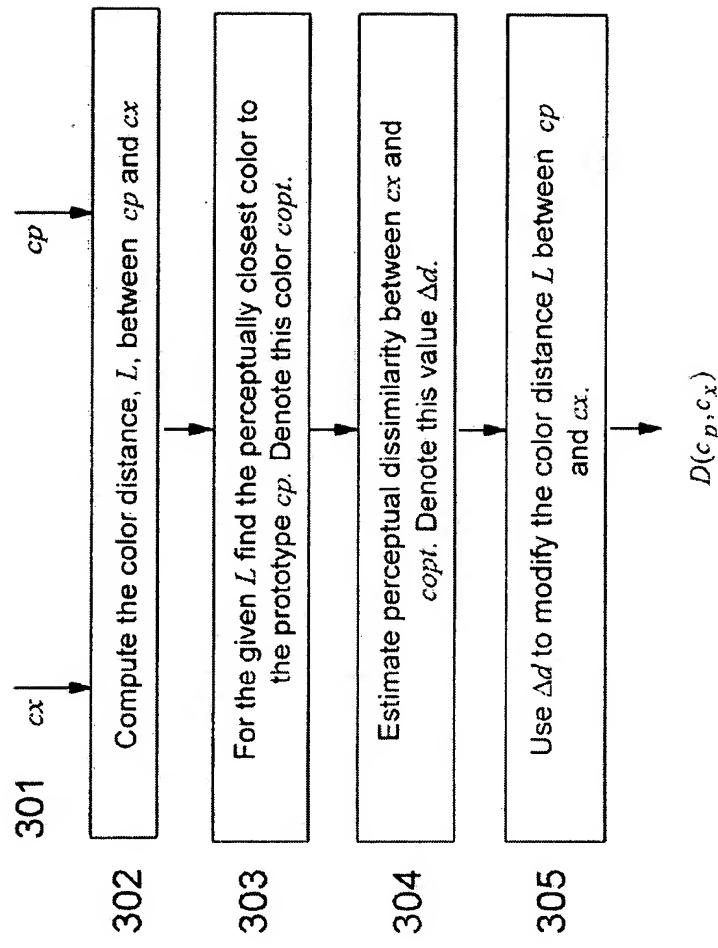


Fig. 4

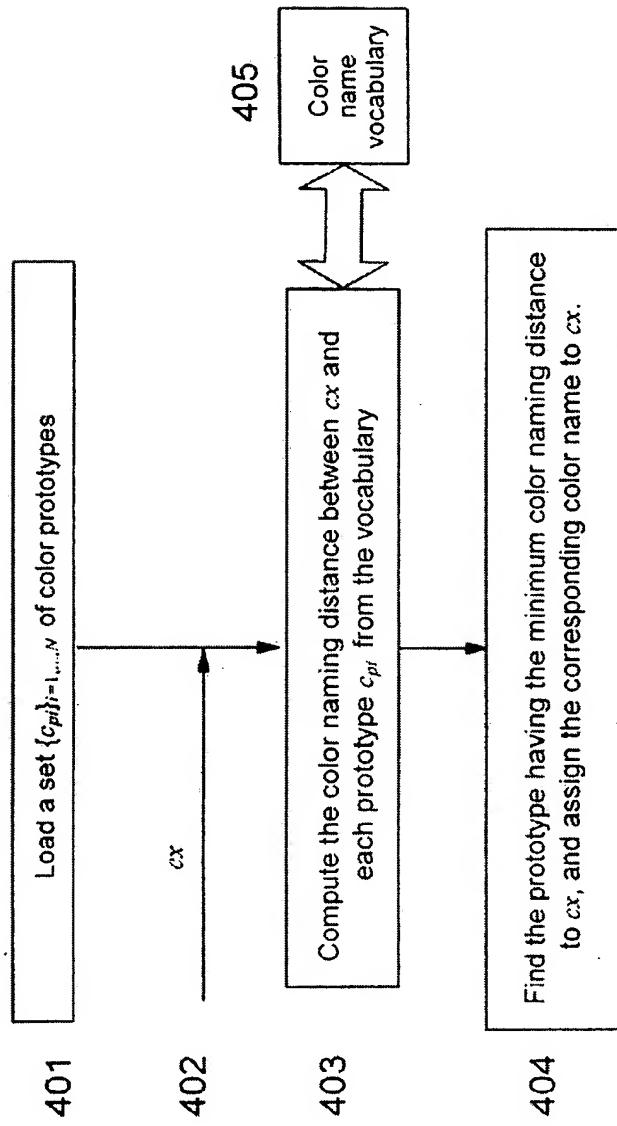


Fig. 5

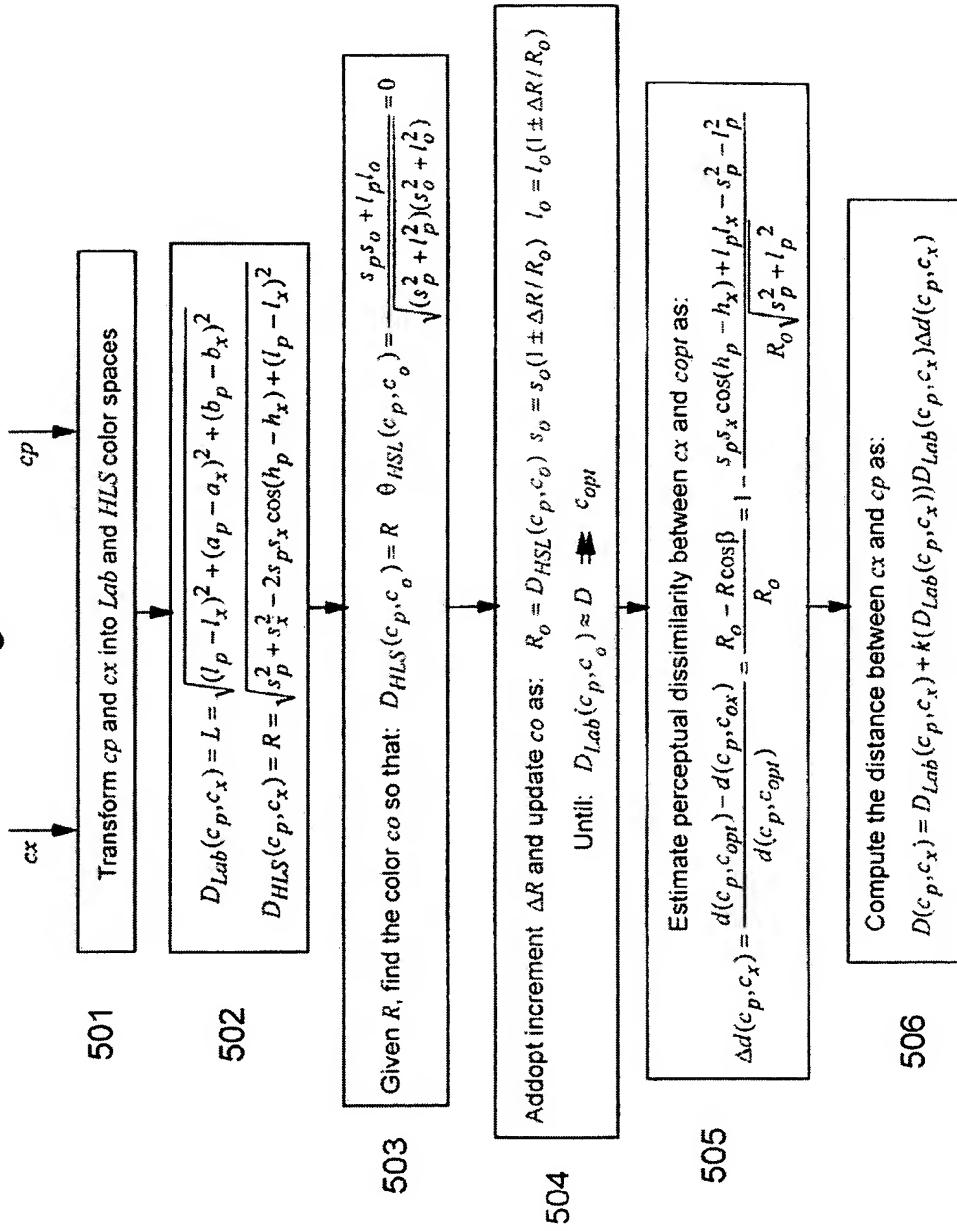
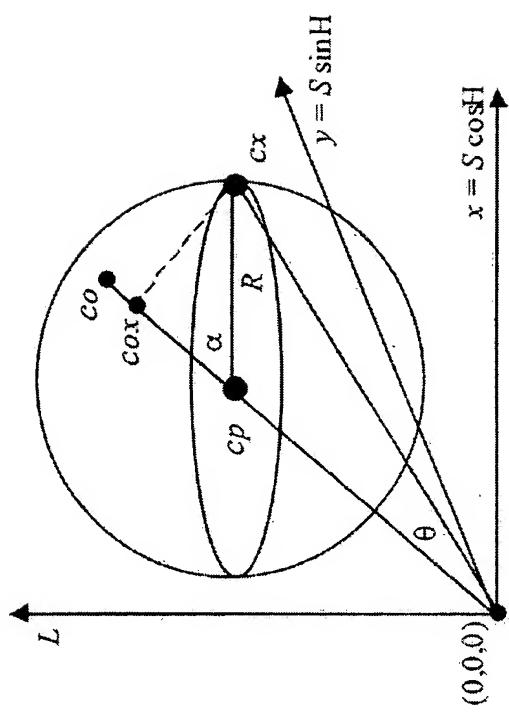
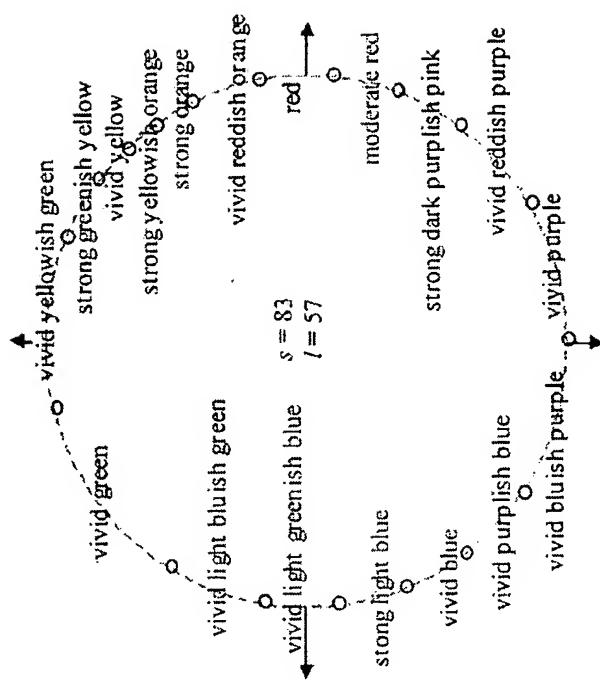


Fig. 6



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Fig. 7a



10/530138

Fig. 7b

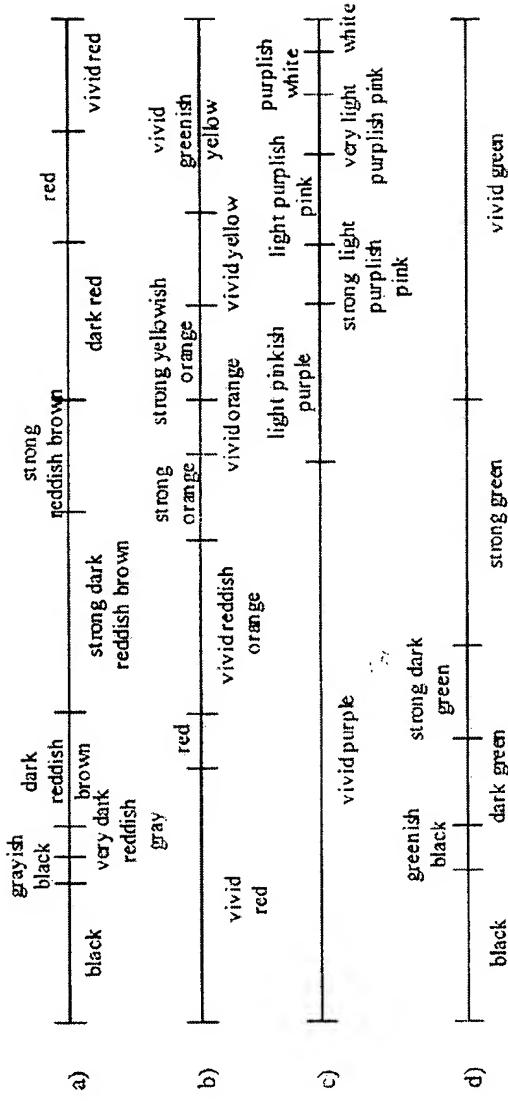
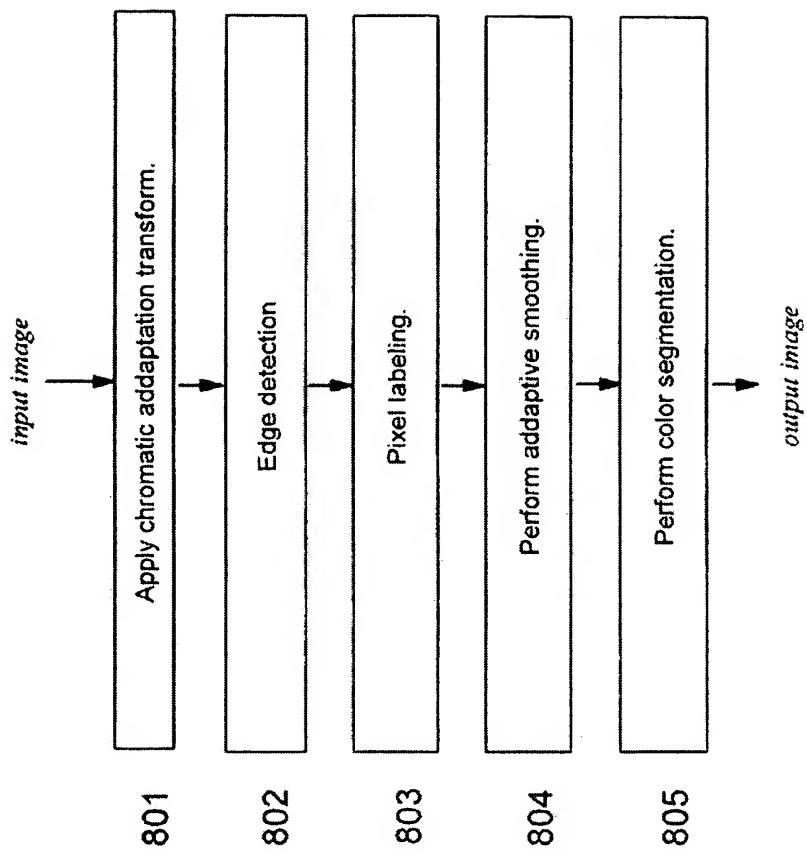


Fig. 8



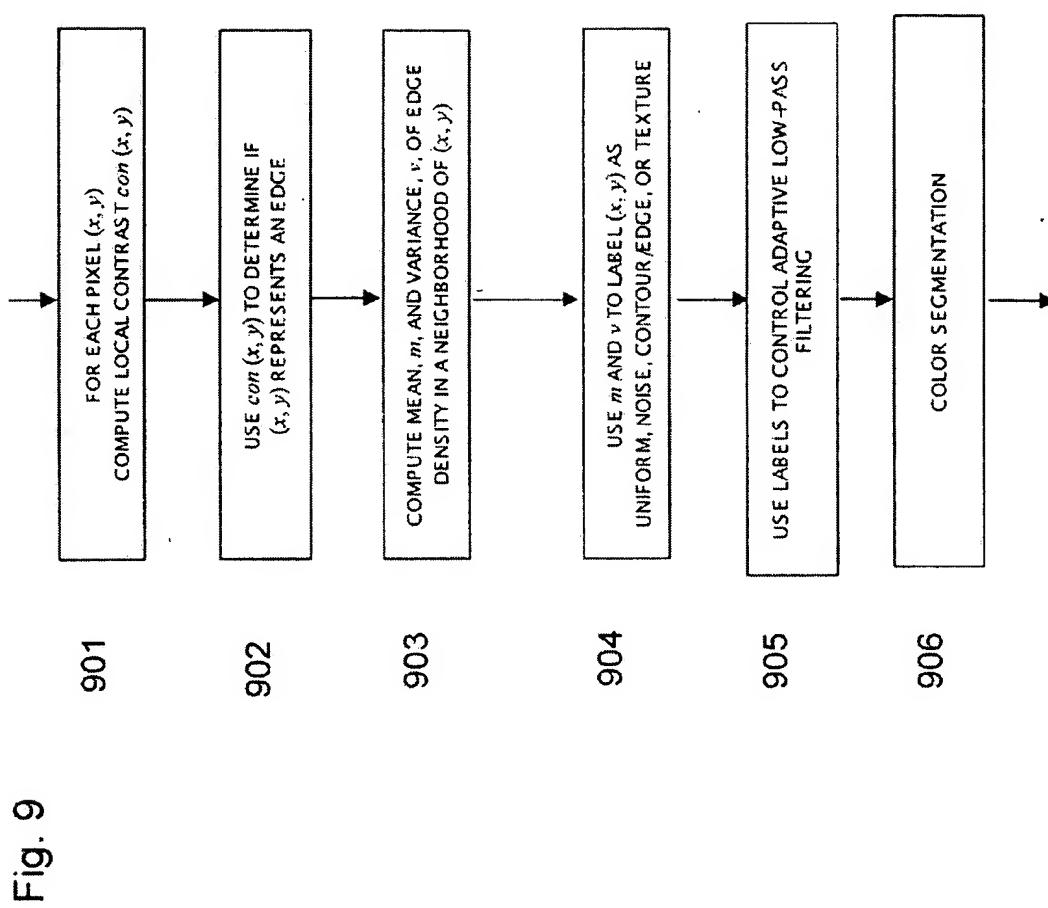
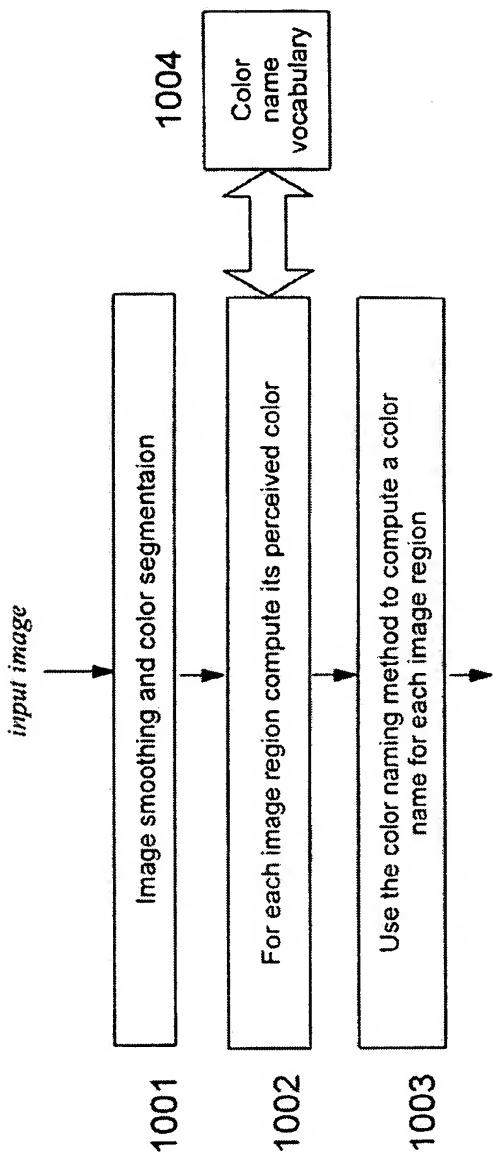


Fig. 10



10/530138

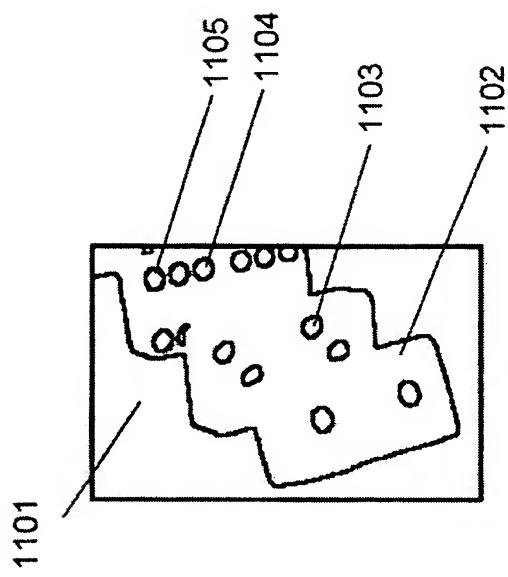


Fig. 11b

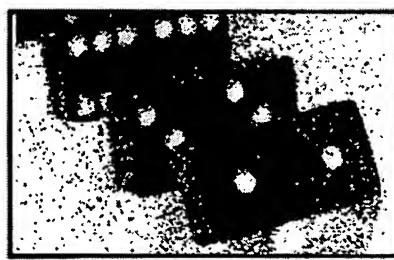


Fig. 11a

Fig. 12a

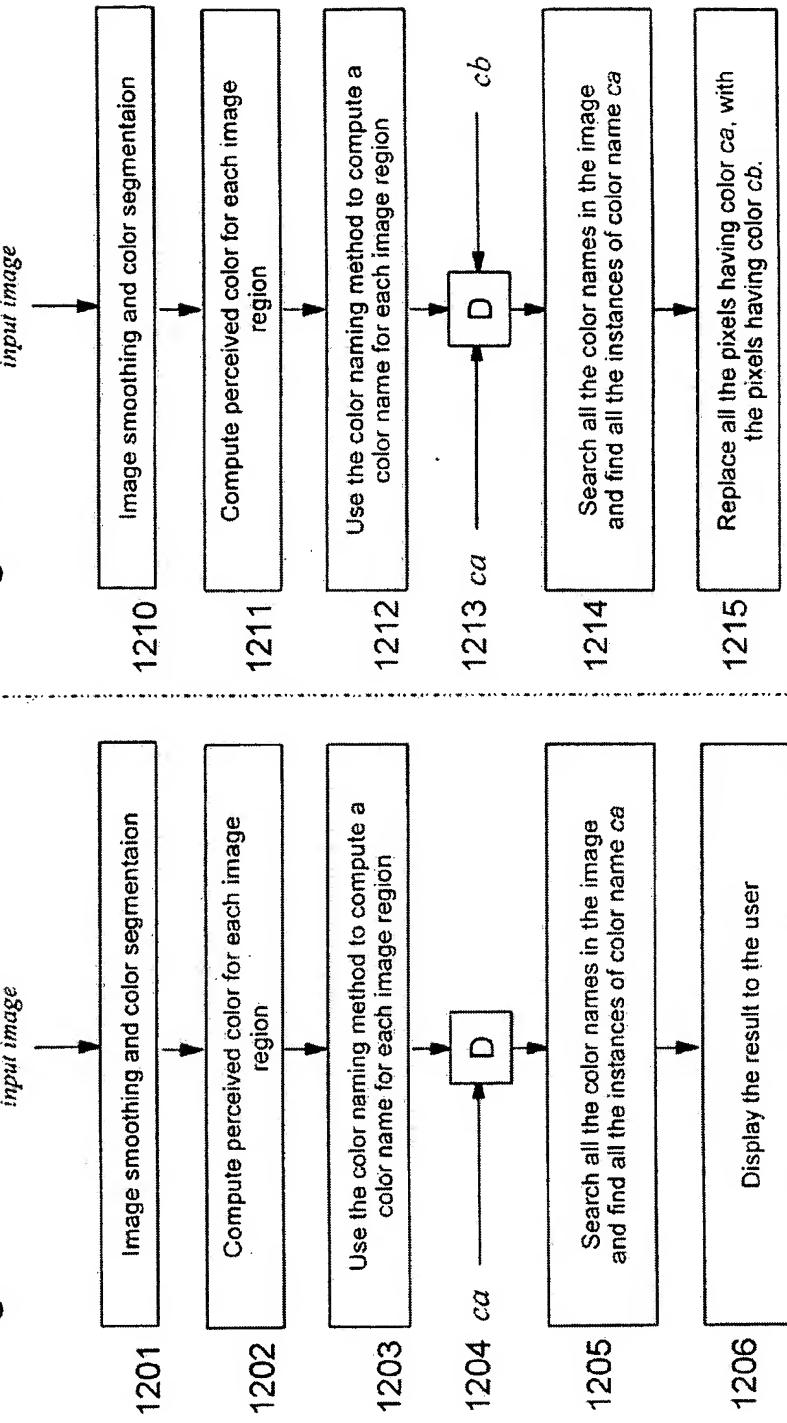


Fig. 12b

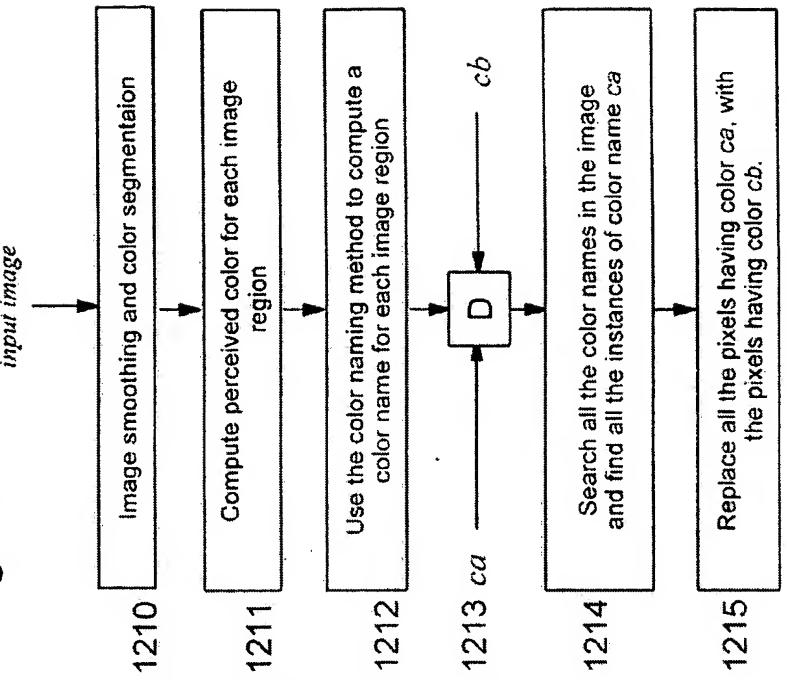


Fig. 13

Fundamental level (lowest precision)

<color name> : <generic hue> | <generic achromatic term>

Coarse level (gross precision)

<color name> : <lightness> <generic hue> | <lightness> <generic achromatic term>

Medium level (medium precision)

<color name> : <saturation> <lightness> <generic hue> | <saturation> <lightness> <generic achromatic term>

Detailed level (highest precision)

<color name> : <chromatic name> | <achromatic name>
i.e. the full color name as defined by the syntax of the color name Vocabulary

Fig. 14

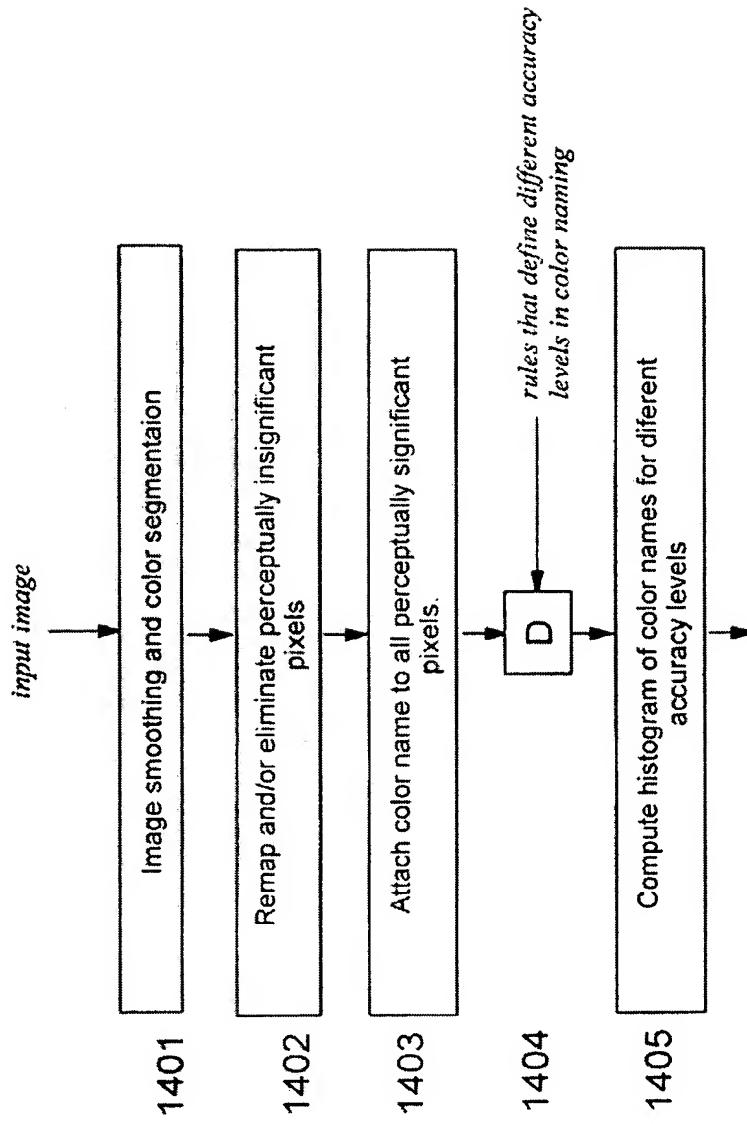


Fig. 15



Detailed	Medium	Coarse	Fundamental
strong purplish red (29%)	strong red (29%)	red (29%)	red (29%)
vivid yellow (21%)	vivid yellow (21%)	yellow (21%)	yellow (21%)
moderate pink (22%)	moderate pink (22%)	pink (22%)	pink (31%)
moderate dark pink (9%)	moderate dark pink (9%)	dark pink (9%)	green (4%)
strong light yellowish green (4%)	light green (4%)	light green (4%)	

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